

**DEPARTMENT OF TRANSPORTATION****DIVISION OF ENGINEERING SERVICES**

Office of Structural Materials

Quality Assurance and Source Inspection



Bay Area Branch  
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Contract #: 04-0120F4Cty: SF/ALA Rte: 80 PM: 13.2/13.9File #: 69.15**SOURCE INSPECTION REPORT****Resident Engineer:**Pursell, Gary**Address:** 333 Burma Road**City:** Oakland, CA 94607**Report No:** SIR-001520**Date Inspected:** 02-Apr-2009**Project Name:** SAS Superstructure**OSM Arrival Time:** 1900**Prime Contractor:** American Bridge/Fluor Enterprises, a JV**OSM Departure Time:** 700**Contractor:** Zhenhua Port Machinery Company, Ltd (ZPMC), Changxing Island**Location:** Changxing Dao, Shanghai**Quality Control Contact:** William (Bill) Oak**Quality Control Present:** Yes No**Material transfer:** Yes No N/A**Sampled Items:** Yes No N/A**Stock Transfer:** Yes No N/A**OK to Cut:** Yes No N/A**Rebar Test Witness:** Yes No N/A**Delayed/Cancelled:** Yes No N/A**Other:** Coatings Inspection**Bridge No:** 34-0006**Component:** Sub-Assemblies, Galvanizing Facility**Bid Item:** 77, 78, 79**Lot No:** B265**Summary of Items Observed:**

On this date Caltrans Office of Structural Materials (OSM) Quality Assurance (QA) NACE III coating inspector, Mr. James Lumley arrived on site at the Zhenhua Port Machinery Company (ZPMC) facility at Changxing Island in Shanghai, China. The purpose of the coating inspections are to monitor the surface preparation and coating applications for the SAS Bay Bridge project. This QA NACE III coating inspector observed the following:

Reviewed Special Provisions and Standard Specification relative to miscellaneous metal and galvanizing. Was informed today verbally by Don Jordan that ZPMC Galvanizing Facility was approved for SAS bridge project. Reviewed and attended the required paperwork with ABF Bill Oak to ensure completeness of ZPMC quality control paperwork was in fact proper. Also checked and reviewed Notice of Inspections and filled in any missing reports as well.

Attended and visited ZPMC galvanizing facility with ABF Bill Oak, Don Walton and also in attendance was Andrew Ferng of Caltrans. Observed acid pickling operations and rinsing operations as well as zinc bath/dipping of numerous pieces of base metal not related to the SAS bridge project, dross and ash were visible on the top portion of the zinc tank, also observed were numerous ZPMC personnel grinding and buffing some handrails. Inspection of numerous pieces previously dipped and galvanized revealed numerous defects on galvanized surfaces. The Galvanizing Facility had been operating about one month thus far and appears quite dirty already. Dross was noted on some pieces of iron dipped and ash inclusions were also noted. Miscellaneous metal for SAS bridge project is still having edges conditioned prior to the galvanizing process.

**Summary of Conversations:**

Requested to Don Jordan to download and print out copies of ASTM standards for Galvanizing as it applies to the SAS bridge project.

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## SOURCE INSPECTION REPORT

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### Comments

This report is for the purpose of determining conformance with the contract documents and is not for the purpose of making repair or fit for purpose recommendations. Should you require recommendations concerning repairs or remedial efforts please contact Eric Tsang. (858) 699-9549, who represents the Office of Structural Materials for your project.

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<b>Inspected By:</b>	Lumley,James	Quality Assurance Inspector
<b>Reviewed By:</b>	Carreon,Albert	QA Reviewer

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